

## Kurikulum Merdeka Belajar Kampus Merdeka (MBKM) S1 Teknik Mesin (2023)

### SEMESTER 1

N0	Kode MK	MATA KULIAH	SKS	Subject	Kriteria
1	2120102107	Matematika 1	3	Mathematics 1	Basic Science
2	2120103109	Fisika 1	3	Physics 1	Basic Science
3	2120103110	Kimia Dasar	3	Basic Chemical	Basic Science
4	2120103111	Ilmu Hayat	3	Life Sciences	Basic Science
5	2120102120	Material Teknik 1	2	Materials Engineering 1	Engineering Topic
6	2120102128	Gambar Teknik	2	Engineering Drawing	Engineering Topic
7	1000002018	Pendidikan Pancasila	2	Pancasila	General Education
8	8320302202	Pendidikan Jasmani dan Kebugaran	2	Physical Education and Fitness	General Education
		<b>TOTAL</b>	<b>20</b>		

### SEMESTER 2

N0	Kode MK	MATA KULIAH	SKS	Subject	Kriteria
1	2120104117	Matematika 2	3	Mathematics 2	Engineering Topic
2	2120103119	Fisika 2	3	Physics 2	Engineering Topic
3	2120102120	Material Teknik 2	2	Materials Engineering 2	Engineering Topic
4	2120102121	Mekanika dan Kekuatan Bahan 1	2	Mechanics and Strength of Materials 1	Engineering Topic
5	2120102115	Kinematika Dinamika 1	2	Dynamic Kinematics 1	Engineering Topic
6	2120102129	Gambar Mesin	2	Mechanical Engineering Drawing	Engineering Topic
7	1000002033	Pendidikan Kewarganegaraan	2	Citizenship Education	General Education
8	1000002026	Pendidikan Agama	2	Buddhist Education Hindu Religious Education Islamic Education Catholic Religious Education Confucian Religious Education	General Education
9	8320302046	Literasi Digital	2	Digital Literacy	General Education
		<b>TOTAL</b>	<b>20</b>		

**SEMESTER 3**

N0	Kode MK	MATA KULIAH	SKS	Subject	Kriteria
1	2120104108	Matematika 3	4	Mathematics 3	Basic Science
2	2120102114	Mekanika dan Kekuatan Bahan 2	2	Mechanics and Strength of Materials 2	Engineering Topic
3	2120102116	Kinematika Dinamika 2	2	Dynamic Kinematics 2	Engineering Topic
4	2120102122	Termodinamika 1	2	Thermodynamics 1	Engineering Topic
5	2120102123	Mekanika Fluida 1	2	Fluid Mechanics 1	Engineering Topic
6	2120102135	Perpindahan Kalor dan Massa 1	2	Heat and Mass Transfer 1	Engineering Topic
7	2120102077	Proses Manufaktur 1	2	Manufacturing Process 1	Engineering Topic
8	2120102132	Elemen Mesin 1	2	Machine Elements 1	Engineering Topic
9	2120102130	Mesin Konversi Energi 1	2	Energy Conversion Machine 1	Engineering Topic
10	2120102136	Pengukuran Teknik/Metrologi	2	Metrology	Engineering Topic
11	1000002003	Bahasa Indonesia	2	Indonesian	General Education
		<b>TOTAL</b>	<b>24</b>		

**SEMESTER 4**

N0	Kode MK	MATA KULIAH	SKS	Subject	Kriteria
1	2120104118	Matematika 4	4	Mathematics 4	Basic Science
2	2120102023	Getaran Mekanik*	2	Mechanical Vibration	Engineering Topic
3	2120102126	Termodinamika 2	2	Thermodynamics 2	Engineering Topic
4	2120102127	Mekanika Fluida 2	2	Fluid Mechanics 2	Engineering Topic
5	2120102135	Perpindahan Kalor dan Massa 2	2	Heat and Mass Transfer 2	Engineering Topic
6	2120102078	Proses Manufaktur 2	2	Manufacturing Process 2	Engineering Topic
7	2120102133	Elemen Mesin 2	2	Machine Elements 2	Engineering Topic
8	2120102131	Mesin Konversi Energi 2	2	Energy Conversion Machine 2	Engineering Topic
9	2120102137	Sistem kendali/kontrol	2	Control System	Engineering Topic
10	2120102055	Metodologi Penelitian	2	Research Methodology	General Education
		<b>TOTAL</b>	<b>22</b>		

**SEMESTER 5**

N0	Kode MK	MATA KULIAH	SKS	Subject	Kriteria
1	2120120140	Magang MBKM	20	Internship	Engineering Topic
		<b>TOTAL</b>	<b>20</b>		

**SEMESTER 6**

<b>N0</b>		<b>MATA KULIAH</b>	<b>SKS</b>	<b>Subject</b>	<b>Kriteria</b>
<b>1</b>	<b>2120120141</b>	<b>MK Berkehidupan Bermasyarakat (MKBB)</b>	<b>20</b>	<b>Community Service Program</b>	<b>General Education</b>
<b>2</b>	<b>2120102075</b>	<b>Proposal Tugas Akhir</b>	<b>2</b>	<b>Final Project Proposal Seminar</b>	<b>Engineering Topic</b>
		<b>TOTAL</b>	<b>20</b>		

**SEMESTER 7**

<b>N0</b>	<b>Kode MK</b>	<b>MATA KULIAH</b>	<b>SKS</b>	<b>Subject</b>	<b>Kriteria</b>
<b>1</b>	<b>2120102112</b>	<b>Statistik</b>	<b>2</b>	<b>Statistics</b>	<b>Basic Science</b>
<b>2</b>	<b>2120102091</b>	<b>Teknik Tenaga Listrik*</b>	<b>2</b>	<b>Electrical Power Engineering</b>	<b>Engineering Topic</b>
<b>3</b>	<b>2120102048</b>	<b>Mekatronika</b>	<b>2</b>	<b>Mechatronics</b>	<b>Engineering Topic</b>
<b>4</b>	<b>2120102102</b>	<b>Kewirausahaan</b>	<b>2</b>	<b>Enterpreneurship</b>	<b>General Education</b>
<b>5</b>	<b>2120102138</b>	<b>Capstone Design/PEM</b>	<b>2</b>	<b>Capstone Design</b>	<b>Engineering Topic</b>
<b>7</b>	<b>2120102008</b>	<b>Bahasa Inggris</b>	<b>2</b>	<b>English</b>	<b>General Education</b>
<b>8</b>	<b>2120102074</b>	<b>Praktek Fenomena Dasar Mesin</b>	<b>2</b>	<b>Basic Engine Phenomenon Practices</b>	<b>Engineering Topic</b>
		<b>Mata Kuliah Pilihan</b>			
<b>9</b>		<b>Mata Kuliah Pilihan 1</b>	<b>2</b>		
<b>10</b>		<b>Mata Kuliah Pilihan 2</b>	<b>2</b>		
<b>11</b>		<b>Mata Kuliah Pilihan 3</b>	<b>2</b>		
		<b>TOTAL</b>	<b>20</b>		

**SEMESTER 8**

<b>N0</b>	<b>Kode MK</b>	<b>MATA KULIAH</b>	<b>SKS</b>	<b>Subject</b>	<b>Kriteria</b>
<b>1</b>	<b>2120104101</b>	<b>Tugas Akhir</b>	<b>4</b>	<b>Final Project</b>	<b>Engineering Topic</b>
		<b>TOTAL</b>	<b>4</b>		

Daftar Matkul Pilihan KONVERSI ENERGI		SKS	Subject	Kriteria
2120102142	Bio Energi	2	Bio Energy	Engineering Topic
2120102143	Energi Surya	2	Solar Energy	Engineering Topic
2120102144	Energi Angin dan Air	2	Wind and Water Energy	Engineering Topic
2120102095	Teknologi Pembakaran dan Bahan Bakar	2	Combustion and Fuel Technology	Engineering Topic

Daftar Matkul Pilihan MANUFAKTUR		SKS	Subject	Kriteria
2120102145	Material Maju	2	Advanced Materials	Engineering Topic
2120102146	Desain Pengelasan	2	Welding Design	Engineering Topic
2120102147	Perlakuan Bahan	2	Material Treatment	Engineering Topic

Matematika & ilmu Dasar	28
Dasar Teknik Mesin	30
Perancangan Teknik & Proyek	48
Umum/Institusional	38
Kekhasan Prodi	8
Total	152

### Magang MBKM (1)/MSIB(2)/RISET(3)

PERENCANAAN PROGRAM MAGANG INDUSTRI	2
KESELAMATAN DAN KESEHATAN KERJA	4

MANAJEMEN INDUSTRI	4
MANAJEMEN KUALITAS	4
ETIKA PROFESI	2
DISEMINASI MAGANG INDUSTRI	2
<b>EVALUASI PROGRAM MAGANG INDUSTRI</b>	<b>2</b>
Total	20

### **MK Berkehidupan Bermasyarakat (MKBB):**

#### (1)KKN/Proyek Desa

Proyek Perancangan Program	2
Proyek Mengembangkan Perangkat	4
Proyek Pelaksanaan Program	4
Proyek Pendesiminasian Program	4
Proyek Pengembangan Laporan	4
Proyek Evaluasi Program	2
Total	20

#### (2) Asistensi Mengajar

Asistensi Mengajar Perancangan Program	2
Asistensi Mengajar Mengembangkan Perangkat	4
Asistensi Mengajar Pelaksanaan Program	4
Asistensi Mengajar Pendesiminasian Program	4
Asistensi Mengajar Pengembangan Laporan	4
Asistensi Mengajar Evaluasi Program	2
Total	20

#### (3) Wirausaha

Wirausaha Perancangan Program	2
Wirausaha Mengembangkan Perangkat	4
Wirausaha Pelaksanaan Program	4
Wirausaha Pendesiminasian Program	4
Wirausaha Pengembangan Laporan	4

Wirausaha Evaluasi Program	2
Total	20

#### (4) Studi Independen

Studi Independen Perancangan Program	2
Studi Independen Mengembangkan Perangkat	4
Studi Independen Pelaksanaan Program	4
Studi Independen Pendesiminasian Program	4
Studi Independen Pengembangan Laporan	4
Studi Independen Evaluasi Program	2
Total	20

#### (5) Proyek Kemanusiaan

Proyek Kemanusiaan Perancangan Program	2
Proyek Kemanusiaan Mengembangkan Perangkat	4
Proyek Kemanusiaan Pelaksanaan Program	4
Proyek Kemanusiaan Pendesiminasian Program	4
Proyek Kemanusiaan Pengembangan Laporan	4
Proyek Kemanusiaan Evaluasi Program	2
Total	20

#### (6) Bela Negara

Bela Negara Perancangan Program	2
Bela Negara Mengembangkan Perangkat	4
Bela Negara Pelaksanaan Program	4
Bela Negara Pendesiminasian Program	4
Bela Negara Pengembangan Laporan	4
Bela Negara Evaluasi Program	2
Total	20

#### Pertukaran pelajar

Mata Kuliah Kampus Tujuan/konversi MK Prodi	20
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